

CLAIM AMENDMENTS

1-49. (Cancelled)

50. (Currently Amended) A fuel cell system comprising:

a fuel supply providing a fuel flow;

an oxidant supply providing an oxidant flow;

a fuel cell to:

receive the fuel flow and the oxidant flow, and

generate heat and power in response to the fuel flow and the oxidant flow, the heat being thermally coupled to a device capable of generating a heat demand signal indicative of more heat being needed from the fuel cell; and

a controller to:

control at least one of the fuel flow and the oxidant flow based on the heat generated by the fuel cell heat demand signal and based on the power generated by the fuel cell.

51. (Currently Amended) The fuel cell system of claim 50, further comprising:

a heat demand sensor to generate a ~~heat~~ heat demand signal; and

a power demand sensor to generate a power demand signal,

wherein the controller responds to the heat demand signal and the power demand signal to control at least one of the fuel flow and the oxidant flow.

52. (Previously Presented) The fuel cell system of claim 51, wherein the controller reduces at least one of the fuel flow and the oxidant flow in response to no heat demand signal and no power demand signal.

53. (Previously Presented) The fuel cell system of claim 51, wherein the controller increases at least one of the fuel flow and the oxidant flow in response to no heat demand signal and the presence of the power demand signal.

54. (Previously Presented) The fuel cell system of claim 51, wherein the controller increases at least one of the fuel flow and the oxidant flow in response to no power demand signal and the presence of the heat demand signal.

55. (Previously Presented) The fuel cell system of claim 51, wherein the controller increases at least one of the fuel flow and oxidant flow in response to the presence of the power demand signal and the presence of the heat demand signal.

56. (Currently Amended) The fuel cell system of claim 51, wherein the power demand sensor comprises a fuel cell voltage sensor that produces a the power demand signal in response to a voltage of the fuel cell decreasing below a predetermined level.

57. (Currently Amended) The fuel cell system of claim 51, wherein the power demand sensor comprises a fuel cell current sensor that produces a the power demand signal in response to an output current of the fuel cell increasing above a predetermined level.

58. (Currently Amended) The fuel cell system of claim 51, wherein the power demand sensor comprises a fuel cell output current sensor and an electrical load sensor, wherein the power demand sensor produces a the power demand signal when an electrical load on the fuel cell exceeds an output current of the fuel cell.

59-81. Cancelled.